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Product-Focused Software Process Improvement

14th International Conference, PROFES 2013
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Proceedings



Springer

Volume Editors

Jens Heidrich

Fraunhofer IESE, Fraunhofer-Platz 1, 67663 Kaiserslautern, Germany

E-mail: jens.heidrich@iese.fraunhofer.de

Markku Oivo

University of Oulu, P.O. Box 3000, 90014 Oulu, Finland

E-mail: markku.oivo@oulu.fi

Andreas Jedlitschka

Fraunhofer IESE, Fraunhofer-Platz 1, 67663 Kaiserslautern, Germany,

E-mail: andreas.jedlitschka@iese.fraunhofer.de

Maria Teresa Baldassarre

University of Bari, Via E. Orabona 4, 70125 Bari, Italy

E-mail: mariateresa.baldassarre@uniba.it

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Preface

On behalf of the PROFES Organizing Committee, we are proud to present the proceedings of the 14th International Conference on Product-Focused Software Process Improvement (PROFES 2013) held in Paphos, Cyprus.

Since 1999, PROFES has established itself as one of the recognized international process improvement conferences. The main theme of PROFES is professional software process improvement (SPI) motivated by product, process, and service quality needs. PROFES 2013 addressed both quality engineering and management topics, including processes, methods, techniques, tools, organizations, and enabling SPI. Solutions found in practice and relevant research results from academia were presented.

The technical program was selected by a committee of leading experts in software process improvement, software process modeling, and empirical software engineering research. This year, 41 papers were submitted, with each paper getting at least three reviewers. After a thorough evaluation, the Program Committee finally selected 22 technical full papers (54% acceptance rate). The topics addressed in these papers indicate that SPI is a vibrant research discipline and is also of high interest for industry. Many papers report on case studies or SPI-related experience gained in industry.

The technical program consisted of the following tracks: Decision Support in Software Engineering, Empirical Software Engineering, Managing Software Processes, Safety-Critical Software Engineering, Software Measurement, Software Process Improvement, and Software Maintenance.

Since the beginning of the PROFES conference series, the purpose has been to highlight the most recent findings and novel results in the area of process improvement. We were proud to have three keynote speakers at the 2013 edition of PROFES: Prof. Dr. Stefan Wagner (University of Stuttgart, Germany) gave a talk on “Making Software Quality Visible.” Dr. Alexis Ocampo (ECOPETROL S.A., Colombia) gave a talk on “ECO-MAPS: Information Quality Driven Enterprise Modeling.” Christos Xenis (LogiSoft, Cyprus) gave a talk on “Implementation of an Online Multi-Level and Device-Independent Time & Attendance System.”

Furthermore, several events were co-located with PROFES 2013: the tutorial “Model-Based Transition from Requirements to High-Level Software Design,” presented by Prof. Dr. Hermann Kaindl (Vienna University of Technology, Austria). The tutorial “Software Effort Estimation and Risk Management,” presented by Dr. Jens Heidrich (Fraunhofer IESE, Germany).

We are thankful for the opportunity to have served as Program Co-chairs for this conference. The Program Committee members and reviewers provided excellent support in reviewing the papers. We are also grateful to the authors,

presenters, and Session Chairs for their time and effort in making PROFES 2013 a success.

In addition, we sincerely thank Dr. Andreas Jedlitschka for his work as General Chair of PROFES 2013 and the Organizing Chair, Prof. Dr. George Angelos Papadopoulos (University of Cyprus, Cyprus), for his professionalism and drive in making PROFES a successful event. Last, but not least, we would like to thank the Short Papers Chair, Dr. Maria Teresa Baldassarre (University of Bari, Italy), the Doctoral Symposium Chair, Prof. Dr. Barbara Russo (Free University of Bolzano, Italy), the Tutorial Co-chairs, Andreas Andreou (Cyprus University of Technology, Cyprus) and Michael Kläs (Fraunhofer IESE, Germany), and the Publicity Chair, Christos Mettouris (University of Cyprus, Cyprus).

May 2013

Jens Heidrich
Markku Oivo
Andreas Jedlitschka

Preface to the Short Papers Track

The PROFES 2013 short papers present recent ideas or current work-in-progress based on research, practice, or experience. Contributions to this track serve a distinct purpose and are subject to requirements different than those of full technical papers. Short papers may represent research work still in progress with preliminary results, ideas that might not be mature enough to be featured in a full technical paper, or experience with existing approaches or technologies that can be told in a compact form.

This year we received 19 short paper submissions. The submissions underwent a rigorous review process by a separate, international Program Committee consisting of ten members. Each submission received at least three reviews. Based on these reviews and the Program Committee's overall assessments, ten submissions were accepted for presentation at the conference and for inclusion in these proceedings.

The accepted papers cover a relevant range of topics: software process reference models; process reliability; software process; performance management; process modeling; software quality.

The session was literally an international event, with authors coming from Sweden, Germany, Finland, Italy, Ireland, as well as Brazil, Australia, and Japan.

We hope that the short papers will be of interest to the attendees, and that the authors will receive relevant feedback.

Special thanks go to the Program Committee for their diligence in reviewing the submissions and for their help with the selection process.

May 2013

Maria Teresa Baldassarre

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